

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method of increasing IL-2 production in ~~treating~~ systemic lupus erythematosus T cells in a patient that has systemic lupus erythematosus comprising:

administering gene-modified T cells to said patient, said T cells originating from said patient and having been gene modified by treating them with antisense cAMP response element modulator (CREM) plasmid, ~~to said systemic lupus erythematosus patient~~, thereby increasing the expression of IL-2 in said T cells in said patient.

2.- 9. (cancelled)

10. (Currently Amended) A method of ~~treating~~ increasing IL-2 production in systemic lupus erythematosus lymphocytes in a patient having systemic lupus erythematosus comprising:

- a) removing said lymphocytes from said patient;
- b) ~~leukopheresing~~ leukophoresing said lymphocytes;
- c) transfecting said ~~leukopheresed~~ leukophoresed lymphocytes with plasmid vectors containing anti-sense cAMP response element modulator; and
- d) re-infusing said transfected lymphocytes into the patient to increase IL-2 production in said lymphocytes in said patient.

11. (previously presented) The method of claim 10, wherein said antisense cAMP response element modulator, is  $\alpha$ -antisense cAMP response element modulator that prevents CREM mRNA from being transcribed and forming CREM protein.

12.-14 (cancelled)

15. (Currently Amended) The method of ~~treating~~ increasing IL-2 production in systemic lupus erythematosus T cells in a patient that has systemic lupus erythematosus comprising: administering T cells from said patient that have been modified ex vivo to ~~that~~ have decreased cAMP response element modulator mRNA to said patient.

16-28 (cancelled)

29. (Currently Amended) A method of increasing IL-2 production in ~~treating~~ T cells from a systemic lupus erythematosus patient comprising:

removing said T cells from said patient; and

treating said T cells with antisense cAMP response element modulator (CREM);  
to increase IL-2 production in said T cells.

30. (Currently Amended) A method of ~~treating~~ increasing IL-2 production in lymphocytes from a systemic lupus erythematosus patient comprising:

a) removing said lymphocytes from said patient;

b) ~~leukopheresing~~ leukophoresing said lymphocytes;

c) transfecting said ~~leukopheresed~~ leukophoresed lymphocytes with plasmid vectors containing anti-sense cAMP response element modulator to stop the expression of cAMP response element modulator and increase IL-2 production in said lymphocytes.